		Pushing the Env	
	0	2006 Science	
Rhode Island Science		de Level and Grade Spa	in Expectations
Grades 5-6	, <del>e</del>		
Activity/Lesson	State	Standards	
Addivity/Edddon	Otato	Otaridards	The motion of an object is affected by forces:
Types of Engines (		SCI.5-6.PS3 (5-	
pgs. 11-23)	RI	6)–8a	speed of objects.
pg:0/			The motion of an object is affected by forces:
Types of Engines (		SCI.5-6.PS3 (5-	
pgs. 11-23)	RI	6)–8c	motion are caused by forces.
,		,	Recognizing that different substances have
Chemistry (pgs. 25-		SCI.5-6.PS1 (5-	
41)	RI	6)–2a	regardless of the size of the sample.
Chemistry (pgs. 25-		SCI.5-6.PS1 (5-	Differentiating among the characteristics of
41)	RI	6)–4a	solids, liquids, and gases.
			Predicting the effects of heating and cooling on
Chemistry (pgs. 25-		SCI.5-6.PS1 (5-	the physical state, volume and mass of a
41)	RI	6)–4b	substance.
Physics and Math		SCI.5-6.PS3 (5-	
(pgs. 43-63)	RI	6)–8b	Recognizing that a force is a push or a pull.
Physics and Math		SCI.5-6.PS3 (5-	, , , , , , , , , , , , , , , , , , , ,
(pgs. 43-63)	RI	6)–8c	motion are caused by forces.
Rocket Activity (pgs.		SCI.5-6.PS3 (5-	
69-75)	RI	6)–8b	Recognizing that a force is a push or a pull.
Rocket Activity (pgs.			Explaining that changes in speed or direction of
69-75)	RI	6)–8c	motion are caused by forces.
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		Pushing the Env	
	C	2006 Science	
Rhode Island Science		de Level and Grade Spa	
Grades 7-8	<i>:</i> е		
Activity/Lesson	State	Standards	
Activity/Lesson	State	Standards	Making and testing predictions on how
Types of Engines (		SCI 7-8 PS3 (7-	unbalanced forces acting on objects change
pgs. 11-23)	RI	8)–8d	speed or direction of motion, or both.
pgs. 11 20)	10	0) 00	Describing or graphically representing that the
			acceleration of an object is proportional to the
Types of Engines (		SCI.7-8.PS3 (7-	force on the object and inversely proportional to
pgs. 11-23)	RI	8)–8e	the object's mass.
Chemistry (pgs. 25-		SCI.7-8.PS1 (7-	Identifying an unknown substance given its
41)	RI	8)–2a	characteristic properties.
,		-,	Classifying and comparing substances using
Chemistry (pgs. 25-		SCI.7-8.PS1 (7-	characteristic properties (e.g., solid, liquid, gas;
41)	RI	8)–2b	metal, non-metal).
Chemistry (pgs. 25-		SCI.7-8.PS1 (7-	Classifying common elements and compounds
41)	RI	8)–5b	using symbols and simple chemical formulas.
Chemistry (pgs. 25-		SCI.7-8.PS1 (7-	Interpreting the symbols and formulas of simple
41)	RI	8)–5c	chemical equations.

DI : 1.14 (I		0017.0.000.47	Making and testing predictions on how
Physics and Math (pgs. 43-63)	RI	SCI.7-8.PS3 (7- 8)–8d	unbalanced forces acting on objects change speed or direction of motion, or both.
(Fgo: 10 00)		2, 22	Describing or graphically representing that the
		201 - 2 - 20 - 4-	acceleration of an object is proportional to the
Physics and Math	DI	SCI.7-8.PS3 (7-	force on the object and inversely proportional to
(pgs. 43-63)	RI	8)–8e	the object's mass.  Making and testing predictions on how
Rocket Activity (pgs.		SCI.7-8.PS3 (7-	unbalanced forces acting on objects change
69-75)	RI	8)–8d	speed or direction of motion, or both.
,		,	Describing or graphically representing that the
			acceleration of an object is proportional to the
Rocket Activity (pgs.		SCI.7-8.PS3 (7-	force on the object and inversely proportional to
69-75)	RI	8)–8e	the object's mass.
		Pushing the Enve	elope
		2006 Science	
		de Level and Grade Spa	n Expectations
Rhode Island Science	е		
Grades 9-11	04-4-	Otom dondo	
Activity/Lesson	State	Standards	Using modeling, illustrating, graphing explain
Types of Engines (		SCI 9-11 PS3 (9-	-how distance and velocity change over time for
pgs. 11-23)	RI	11)-8b	a free falling object.
Types of Engines (			Explaining through words, charts, diagrams, and models the effects of distance and the amount of mass on the gravitational force between
pgs. 11-23)	RI	11)–9a	objects (e.g. Universal Gravitation Law).
Chemistry (pgs. 25-41)	RI	SCI.9-11.PS1 (9- 11)-1a	Utilizing appropriate data (related to chemical and physical properties), to distinguish one substance from another or identify an unknown substance.
Chemistry (pgs. 25-41)	RI	SCI.9-11.PS1 (9- 11)-1b	Determining the degree of change in pressure of a given volume of gas when the temperature changes incrementally (doubles, triples, etc.).
Physics and Math (pgs. 43-63)	RI	SCI.9-11.PS3 (9- 11)-8a	Predicting and/or graphing the path of an object in different reference planes and explain how and why (forces) it occurs.
Physics and Math (pgs. 43-63)	RI	SCI.9-11.PS3 (9- 11)-9b	Using Newton's Laws of Motion and the Law of Conservation of Momentum to predict the effect on the motion of objects.
Rocket Activity (pgs. 69-75)	RI	SCI.9-11.PS3 (9- 11)-8a	Predicting and/or graphing the path of an object in different reference planes and explain how and why (forces) it occurs.
Rocket Activity (pgs. 69-75)	RI	SCI.9-11.PS3 (9- 11)-9b	Using Newton's Laws of Motion and the Law of Conservation of Momentum to predict the effect on the motion of objects.